

# SEQUENCE LISTING

<110> Chory, Joanne  
Jianming, Li  
Salk Institute for Biological Studies

<120> RECEPTOR KINASE, BIN 1

<130> SALKINS.012CP1

<150> 08/881,706

<151> 1997-06-24

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 4104

<212> DNA

<213> Arabidopsis

<220>

<221> CDS

<222> (97) ... (3684)

<400> 1

```

cttccacttc ctctgtaatg gtggaaccaa aaccctagat tccccctttc atcttctcta 60
cttccacac ttttctctct cacaaactct tgagaa atg aag act ttt tca agc 114
                                Met Lys Thr Phe Ser Ser
                                1           5

ttc ttt ctc tct gta aca act ctc ttc ttc ttc tcc ttc ttt tct ctt 162
Phe Phe Leu Ser Val Thr Thr Leu Phe Phe Phe Ser Phe Phe Ser Leu
          10           15           20

tca ttt caa gct tca cca tct cag tct tta tac aga gaa atc cat cag 210
Ser Phe Gln Ala Ser Pro Ser Gln Ser Leu Tyr Arg Glu Ile His Gln
          25           30           35

ctt ata agc ttc aaa gac gtt ctt cct gac aag aat ctt ctc cca gac 258
Leu Ile Ser Phe Lys Asp Val Leu Pro Asp Lys Asn Leu Leu Pro Asp
          40           45           50

tgg tct tcc aac aaa aac ccg tgt act ttc gat ggc gtt act tgc aga 306
Trp Ser Ser Asn Lys Asn Pro Cys Thr Phe Asp Gly Val Thr Cys Arg
          55           60           65           70

gac gac aaa gtt act tcg att gat ctc agc tcc aag cct ctc aac gtc 354
Asp Asp Lys Val Thr Ser Ile Asp Leu Ser Ser Lys Pro Leu Asn Val
          75           80           85

gga ttc agt gcc gtg tcc tcg tct ctc ctg tct ctc acc gga tta gag 402

```



ctc tcc ggc gcg tgt gat aca ctc act ggt ctc gat ctc tct gga aat	1074
Leu Ser Gly Ala Cys Asp Thr Leu Thr Gly Leu Asp Leu Ser Gly Asn	
315 320 325	
cat ttc tac ggt gcg gtt cct cca ttc ttc ggt tca tgt tct ctt ctc	1122
His Phe Tyr Gly Ala Val Pro Pro Phe Phe Gly Ser Cys Ser Leu Leu	
330 335 340	
gaa tca ctc gcg ttg tcg agt aac aac ttc tct ggc gag tta ccg atg	1170
Glu Ser Leu Ala Leu Ser Ser Asn Asn Phe Ser Gly Glu Leu Pro Met	
345 350 355	
gat acg ttg ttg aag atg aga gga ctc aaa gta ctt gat ctg tct ttc	1218
Asp Thr Leu Leu Lys Met Arg Gly Leu Lys Val Leu Asp Leu Ser Phe	
360 365 370	
aac gag ttt tcc ggc gaa tta ccg gaa tct ctg acg aat cta tcc gct	1266
Asn Glu Phe Ser Gly Glu Leu Pro Glu Ser Leu Thr Asn Leu Ser Ala	
375 380 385 390	
tcg ttg cta acg tta gat ctc agc tcc aac aat ttc tcc ggt ccg att	1314
Ser Leu Leu Thr Leu Asp Leu Ser Ser Asn Asn Phe Ser Gly Pro Ile	
395 400 405	
ctc cca aat ctc tgc cag aac cct aaa aac act ctg cag gag ctt tac	1362
Leu Pro Asn Leu Cys Gln Asn Pro Lys Asn Thr Leu Gln Glu Leu Tyr	
410 415 420	
ctt cag aac aat ggc ttc acc ggg aag att cca ccg act tta agc aac	1410
Leu Gln Asn Asn Gly Phe Thr Gly Lys Ile Pro Pro Thr Leu Ser Asn	
425 430 435	
tgt tct gag ctg gtt tcg ctt cac ttg agc ttc aat tac ctc tcc ggg	1458
Cys Ser Glu Leu Val Ser Leu His Leu Ser Phe Asn Tyr Leu Ser Gly	
440 445 450	
aca atc cct tcg agc tta ggc tct cta tcg aag ctt cga gat ctg aaa	1506
Thr Ile Pro Ser Ser Leu Gly Ser Leu Ser Lys Leu Arg Asp Leu Lys	
455 460 465 470	
cta tgg ctg aat atg tta gaa gga gag atc cct cag gag ctc atg tat	1554
Leu Trp Leu Asn Met Leu Glu Gly Glu Ile Pro Gln Glu Leu Met Tyr	
475 480 485	
gtc aag acc tta gag act ctg atc ctc gac ttc aac gat tta acc ggt	1602
Val Lys Thr Leu Glu Thr Leu Ile Leu Asp Phe Asn Asp Leu Thr Gly	
490 495 500	
gaa atc cct tcc ggt tta agt aac tgt acc aat ctt aac tgg att tct	1650
Glu Ile Pro Ser Gly Leu Ser Asn Cys Thr Asn Leu Asn Trp Ile Ser	
505 510 515	
ctg tcg aat aac cgg tta acc ggt gag att ccg aaa tgg att ggc cgg	1698
Leu Ser Asn Asn Arg Leu Thr Gly Glu Ile Pro Lys Trp Ile Gly Arg	
520 525 530	

tta gag aat ctc gct atc ctc aag tta agc aac aat tca ttc tcc ggg	1746
Leu Glu Asn Leu Ala Ile Leu Lys Leu Ser Asn Asn Ser Phe Ser Gly	
535 540 545 550	
aac att ccg gat gag ctc ggc gac tgc aga agc tta atc tgg ctt gat	1794
Asn Ile Pro Asp Glu Leu Gly Asp Cys Arg Ser Leu Ile Trp Leu Asp	
555 560 565	
ctc aac acc aat ctc ttc aat gga acg att ccg gcg gcg atg ttt aaa	1842
Leu Asn Thr Asn Leu Phe Asn Gly Thr Ile Pro Ala Ala Met Phe Lys	
570 575 580	
caa tcc ggg aaa atc gct gcc aat ttc atc gcc ggt aag agg tac gtt	1890
Gln Ser Gly Lys Ile Ala Ala Asn Phe Ile Ala Gly Lys Arg Tyr Val	
585 590 595	
tat atc aaa aac gat ggg atg aag aaa gag tgt cat gga gct ggt aat	1938
Tyr Ile Lys Asn Asp Gly Met Lys Lys Glu Cys His Gly Ala Gly Asn	
600 605 610	
tta ctt gag ttt caa gga atc aga tcc gaa caa tta aac cgg ctt tca	1986
Leu Leu Glu Phe Gln Gly Ile Arg Ser Glu Gln Leu Asn Arg Leu Ser	
615 620 625 630	
acg agg aac cct tgt aat atc act agc aga gtc tat gga ggt cac act	2034
Thr Arg Asn Pro Cys Asn Ile Thr Ser Arg Val Tyr Gly Gly His Thr	
635 640 645	
tcg ccg acg ttt gat aac aat ggt tcg atg atg ttt ctg gac atg tct	2082
Ser Pro Thr Phe Asp Asn Asn Gly Ser Met Met Phe Leu Asp Met Ser	
650 655 660	
tac aac atg ttg tct gga tac ata ccg aag gag att ggt tcg atg cct	2130
Tyr Asn Met Leu Ser Gly Tyr Ile Pro Lys Glu Ile Gly Ser Met Pro	
665 670 675	
tat ctg ttt att ctc aat ttg ggt cat aac gat atc tct ggt tcg att	2178
Tyr Leu Phe Ile Leu Asn Leu Gly His Asn Asp Ile Ser Gly Ser Ile	
680 685 690	
cct gat gag gta ggt gat cta aga ggt tta aac att ctt gat ctt tca	2226
Pro Asp Glu Val Gly Asp Leu Arg Gly Leu Asn Ile Leu Asp Leu Ser	
695 700 705 710	
agc aat aag ctc gat ggg agg att cct cag gct atg tca gct ctt act	2274
Ser Asn Lys Leu Asp Gly Arg Ile Pro Gln Ala Met Ser Ala Leu Thr	
715 720 725	
atg ctt acg gaa atc gat ttg tcg aat aat aat ttg tct ggt ccg att	2322
Met Leu Thr Glu Ile Asp Leu Ser Asn Asn Asn Leu Ser Gly Pro Ile	
730 735 740	
cct gag atg ggt cag ttt gag act ttt cca ccg gct aag ttc ttg aac	2370
Pro Glu Met Gly Gln Phe Glu Thr Phe Pro Pro Ala Lys Phe Leu Asn	

745						750					755					
aat	cct	ggg	ctc	tgt	ggg	tat	cct	ctt	cgg	cgg	tgt	gat	cct	tca	aat	2418
Asn	Pro	Gly	Leu	Cys	Gly	Tyr	Pro	Leu	Pro	Arg	Cys	Asp	Pro	Ser	Asn	
760						765					770					
gca	gac	ggg	tat	gct	cat	cat	cag	aga	tct	cat	gga	agg	aga	cca	gcg	2466
Ala	Asp	Gly	Tyr	Ala	His	His	Gln	Arg	Ser	His	Gly	Arg	Arg	Pro	Ala	
775						780					785					790
tcc	ctt	gct	ggg	agt	gtg	gcg	atg	gga	ttg	ttg	ttc	tct	ttt	gtg	tgt	2514
Ser	Leu	Ala	Gly	Ser	Val	Ala	Met	Gly	Leu	Leu	Phe	Ser	Phe	Val	Cys	
795						800					805					
ata	ttt	ggg	ctg	atc	ctt	gtt	ggg	aga	gag	atg	agg	aag	aga	cgg	aga	2562
Ile	Phe	Gly	Leu	Ile	Leu	Val	Gly	Arg	Glu	Met	Arg	Lys	Arg	Arg	Arg	
810						815					820					
aag	aaa	gag	gcg	gag	ttg	gag	atg	tat	gcg	gaa	gga	cat	gga	aac	tct	2610
Lys	Lys	Glu	Ala	Glu	Leu	Glu	Met	Tyr	Ala	Glu	Gly	His	Gly	Asn	Ser	
825						830					835					
ggc	gat	aga	act	gct	aac	aac	acc	aat	tgg	aag	ctg	act	ggg	gtg	aaa	2658
Gly	Asp	Arg	Thr	Ala	Asn	Asn	Thr	Asn	Trp	Lys	Leu	Thr	Gly	Val	Lys	
840						845					850					
gaa	gcc	ttg	agt	atc	aat	ctt	gct	gct	ttc	gag	aag	cca	ttg	cgg	aag	2706
Glu	Ala	Leu	Ser	Ile	Asn	Leu	Ala	Ala	Phe	Glu	Lys	Pro	Leu	Arg	Lys	
855						860					865					870
ctc	acg	ttt	gcg	gat	ctt	ctt	cag	gct	acc	aat	ggg	ttc	cat	aat	gat	2754
Leu	Thr	Phe	Ala	Asp	Leu	Leu	Gln	Ala	Thr	Asn	Gly	Phe	His	Asn	Asp	
875						880					885					
agt	ctg	att	ggg	tct	ggg	ggg	ttt	gga	gat	ggt	tac	aaa	gcg	att	ttg	2802
Ser	Leu	Ile	Gly	Ser	Gly	Gly	Phe	Gly	Asp	Val	Tyr	Lys	Ala	Ile	Leu	
890						895					900					
aaa	gat	gga	agc	gcg	gtg	gct	atc	aag	aaa	ctg	att	cat	ggt	agc	ggg	2850
Lys	Asp	Gly	Ser	Ala	Val	Ala	Ile	Lys	Lys	Leu	Ile	His	Val	Ser	Gly	
905						910					915					
caa	ggg	gat	aga	gag	ttc	atg	gcg	gag	atg	gaa	acc	att	ggg	aag	atc	2898
Gln	Gly	Asp	Arg	Glu	Phe	Met	Ala	Glu	Met	Glu	Thr	Ile	Gly	Lys	Ile	
920						925					930					
aaa	cat	cga	aat	ctt	gtg	cct	ctt	ctt	ggg	tat	tgc	aaa	ggt	gga	gac	2946
Lys	His	Arg	Asn	Leu	Val	Pro	Leu	Leu	Gly	Tyr	Cys	Lys	Val	Gly	Asp	
935						940					945					950
gag	cgg	ctt	ctt	ggt	aat	gag	ggt	atg	aag	tat	gga	agt	tta	gaa	gat	2994
Glu	Arg	Leu	Leu	Val	Asn	Glu	Val	Met	Lys	Tyr	Gly	Ser	Leu	Glu	Asp	
955						960					965					
gtt	ttg	caa	gac	ccc	aag	aaa	ggg	ggg	gtg	aaa	ctt	aaa	ttg	tcc	aca	3042



gtt cct gaa gga aaa tta tgagagttag aaacagagcc aaagcagatt 3714  
Val Pro Glu Gly Lys Leu  
1195

ctttgaacat caaaatcatt taagggtcag tccgattttc cttgggtcta ttttttttgt 3774  
atatttctact atatgctaag tgtatgtatc tatgttattt atacataaga cggatgtttt 3834  
ttttttcggg ctcggtcgaa ttgggggtgg tggagaatag aactaagtaa taactttgtt 3894  
aagaatatgt aaatatacag ttttttgggg agggatttgt aatgttttcg tttttagttc 3954  
tatggaaatt tctacgttgc taacaaatta aatttataat gaatcatgaa gaaacaaaga 4014  
gccaatgtgt attaaatttc gactgatcat gttcatgtaa atgcacgtga cctattaatt 4074  
cattattgtc ggaattaatt tggggaattc 4104

<210> 2  
<211> 1196  
<212> PRT  
<213> Arabidopsis

<400> 2  
Met Lys Thr Phe Ser Ser Phe Phe Leu Ser Val Thr Thr Leu Phe Phe  
1 5 10 15  
Phe Ser Phe Phe Ser Leu Ser Phe Gln Ala Ser Pro Ser Gln Ser Leu  
20 25 30  
Tyr Arg Glu Ile His Gln Leu Ile Ser Phe Lys Asp Val Leu Pro Asp  
35 40 45  
Lys Asn Leu Leu Pro Asp Trp Ser Ser Asn Lys Asn Pro Cys Thr Phe  
50 55 60  
Asp Gly Val Thr Cys Arg Asp Asp Lys Val Thr Ser Ile Asp Leu Ser  
65 70 75 80  
Ser Lys Pro Leu Asn Val Gly Phe Ser Ala Val Ser Ser Ser Leu Leu  
85 90 95  
Ser Leu Thr Gly Leu Glu Ser Leu Phe Leu Ser Asn Ser His Ile Asn  
100 105 110  
Gly Ser Val Ser Gly Phe Lys Cys Ser Ala Ser Leu Thr Ser Leu Asp  
115 120 125  
Leu Ser Arg Asn Ser Leu Ser Gly Pro Val Thr Thr Leu Thr Ser Leu  
130 135 140  
Gly Ser Cys Ser Gly Leu Lys Phe Leu Asn Val Ser Ser Asn Thr Leu  
145 150 155 160  
Asp Phe Pro Gly Lys Val Ser Gly Gly Leu Lys Leu Asn Ser Leu Glu  
165 170 175  
Val Leu Asp Leu Ser Ala Asn Ser Ile Ser Gly Ala Asn Val Val Gly  
180 185 190  
Trp Val Leu Ser Asp Gly Cys Gly Glu Leu Lys His Leu Ala Ile Ser  
195 200 205  
Gly Asn Lys Ile Ser Gly Asp Val Asp Val Ser Arg Cys Val Asn Leu  
210 215 220  
Glu Phe Leu Asp Val Ser Ser Asn Asn Phe Ser Thr Gly Ile Pro Phe  
225 230 235 240  
Leu Gly Asp Cys Ser Ala Leu Gln His Leu Asp Ile Ser Gly Asn Lys  
245 250 255  
Leu Ser Gly Asp Phe Ser Arg Ala Ile Ser Thr Cys Thr Glu Leu Lys  
260 265 270  
Leu Leu Asn Ile Ser Ser Asn Gln Phe Val Gly Pro Ile Pro Pro Leu  
275 280 285  
Pro Leu Lys Ser Leu Gln Tyr Leu Ser Leu Ala Glu Asn Lys Phe Thr

	290					295					300				
Gly 305	Glu	Ile	Pro	Asp	Phe 310	Leu	Ser	Gly	Ala	Cys 315	Asp	Thr	Leu	Thr	Gly 320
Leu	Asp	Leu	Ser	Gly 325	Asn	His	Phe	Tyr	Gly 330	Ala	Val	Pro	Pro	Phe	Phe 335
Gly	Ser	Cys	Ser	Leu 340	Leu	Glu	Ser	Leu 345	Ala	Leu	Ser	Ser	Asn	Asn	Phe 350
Ser	Gly	Glu	Leu	Pro 355	Met	Asp	Thr	Leu 360	Leu	Lys	Met	Arg	Gly	Leu	Lys 365
Val	Leu	Asp	Leu	Ser 370	Phe	Asn	Glu	Phe 375	Ser	Gly	Glu	Leu	Pro	Glu	Ser 380
Leu 385	Thr	Asn	Leu	Ser 390	Ala	Ser	Leu	Leu 395	Thr	Leu	Asp	Leu	Ser	Ser	Asn 400
Asn	Phe	Ser	Gly	Pro 405	Ile	Leu	Pro	Asn 410	Leu	Cys	Gln	Asn	Pro	Lys	Asn 415
Thr	Leu	Gln	Glu	Leu 420	Tyr	Leu	Gln	Asn 425	Asn	Gly	Phe	Thr	Gly	Lys	Ile 430
Pro	Pro	Thr	Leu	Ser 435	Asn	Cys	Ser	Glu 440	Leu	Val	Ser	Leu	His	Leu	Ser 445
Phe	Asn	Tyr	Leu	Ser 450	Gly	Thr	Ile	Pro 455	Ser	Ser	Leu	Gly	Ser	Leu	Ser 460
Lys 465	Leu	Arg	Asp	Leu 470	Lys	Leu	Trp	Leu 475	Asn	Met	Leu	Glu	Gly	Glu	Ile 480
Pro	Gln	Glu	Leu	Met 485	Tyr	Val	Lys	Thr 490	Leu	Glu	Thr	Leu	Ile	Leu	Asp 495
Phe	Asn	Asp	Leu 500	Thr	Gly	Glu	Ile	Pro 505	Ser	Gly	Leu	Ser	Asn	Cys	Thr 510
Asn	Leu	Asn	Trp 515	Ile	Ser	Leu	Ser 520	Asn 525	Asn	Arg	Leu	Thr	Gly	Glu	Ile 530
Pro 535	Lys	Trp	Ile	Gly 540	Arg	Leu	Glu 545	Asn 550	Leu	Ala	Ile	Leu	Lys	Leu	Ser 555
Asn 560	Asn	Ser	Phe	Ser 565	Gly	Asn	Ile 570	Pro 575	Asp	Glu	Leu	Gly	Asp	Cys	Arg 580
Ser	Leu	Ile	Trp 585	Leu 590	Asp	Leu	Asn 595	Thr 600	Asn	Leu	Phe	Asn	Gly	Thr	Ile 605
Pro	Ala	Ala	Met 610	Phe 615	Lys	Gln	Ser 620	Gly 625	Lys	Ile	Ala	Ala	Asn	Phe	Ile 630
Ala	Gly	Lys	Arg 635	Tyr 640	Val	Tyr	Ile 645	Lys 650	Asn	Asp	Gly	Met	Lys	Lys	Glu 655
Cys	His	Gly	Ala 660	Gly 665	Asn	Leu	Leu 670	Glu 675	Phe	Gln	Gly	Ile	Arg	Ser	Glu 680
Gln 685	Leu	Asn	Arg 690	Leu 695	Ser	Thr	Arg 700	Asn 705	Pro	Cys	Asn	Ile	Thr	Ser	Arg 710
Val	Tyr	Gly	Gly 715	His 720	Thr	Ser	Pro 725	Thr 730	Phe	Asp	Asn	Asn	Gly	Ser	Met 735
Met	Phe	Leu	Asp 740	Met 745	Ser	Tyr	Asn 750	Met 755	Leu	Ser	Gly	Tyr	Ile	Pro	Lys 760
Glu	Ile	Gly	Ser 765	Met 770	Pro	Tyr	Leu 775	Phe 780	Ile	Leu	Asn	Leu	Gly	His	Asn 785
Asp	Ile	Ser	Gly 790	Ser 795	Ile	Pro	Asp 800	Glu 805	Val	Gly	Asp	Leu	Arg	Gly	Leu 810
Asn 815	Ile	Leu	Asp 820	Leu 825	Ser	Ser	Asn 830	Lys 835	Leu	Asp	Gly	Arg	Ile	Pro	Gln 840
Ala	Met	Ser	Ala 845	Leu 850	Thr	Met	Leu 855	Thr 860	Glu	Ile	Asp	Leu	Ser	Asn	Asn 865



Asn Leu Ser Gly Pro Ile Pro Glu Met Gly Gln Phe Glu Thr Phe Pro  
 740 745 750  
 Pro Ala Lys Phe Leu Asn Asn Pro Gly Leu Cys Gly Tyr Pro Leu Pro  
 755 760 765  
 Arg Cys Asp Pro Ser Asn Ala Asp Gly Tyr Ala His His Gln Arg Ser  
 770 775 780  
 His Gly Arg Arg Pro Ala Ser Leu Ala Gly Ser Val Ala Met Gly Leu  
 785 790 795 800  
 Leu Phe Ser Phe Val Cys Ile Phe Gly Leu Ile Leu Val Gly Arg Glu  
 805 810 815  
 Met Arg Lys Arg Arg Arg Lys Lys Glu Ala Glu Leu Glu Met Tyr Ala  
 820 825 830  
 Glu Gly His Gly Asn Ser Gly Asp Arg Thr Ala Asn Asn Thr Asn Trp  
 835 840 845  
 Lys Leu Thr Gly Val Lys Glu Ala Leu Ser Ile Asn Leu Ala Ala Phe  
 850 855 860  
 Glu Lys Pro Leu Arg Lys Leu Thr Phe Ala Asp Leu Leu Gln Ala Thr  
 865 870 875 880  
 Asn Gly Phe His Asn Asp Ser Leu Ile Gly Ser Gly Gly Phe Gly Asp  
 885 890 895  
 Val Tyr Lys Ala Ile Leu Lys Asp Gly Ser Ala Val Ala Ile Lys Lys  
 900 905 910  
 Leu Ile His Val Ser Gly Gln Gly Asp Arg Glu Phe Met Ala Glu Met  
 915 920 925  
 Glu Thr Ile Gly Lys Ile Lys His Arg Asn Leu Val Pro Leu Leu Gly  
 930 935 940  
 Tyr Cys Lys Val Gly Asp Glu Arg Leu Leu Val Asn Glu Val Met Lys  
 945 950 955 960  
 Tyr Gly Ser Leu Glu Asp Val Leu Gln Asp Pro Lys Lys Gly Gly Val  
 965 970 975  
 Lys Leu Lys Leu Ser Thr Arg Arg Lys Ile Ala Ile Gly Ser Ala Arg  
 980 985 990  
 Gly Leu Ala Phe Leu His His Asn Cys Ser Pro His Ile Ile His Arg  
 995 1000 1005  
 Asp Met Lys Ser Ser Asn Val Leu Leu Asp Glu Asn Leu Glu Ala Arg  
 1010 1015 1020  
 Val Ser Asp Phe Gly Met Ala Arg Leu Met Ser Ala Met Asp Thr His  
 1025 1030 1035 1040  
 Leu Ser Val Ser Thr Leu Ala Gly Thr Pro Gly Tyr Val Pro Pro Glu  
 1045 1050 1055  
 Tyr Tyr Gln Ser Phe Arg Cys Ser Thr Lys Gly Asp Val Tyr Ser Tyr  
 1060 1065 1070  
 Gly Val Val Leu Leu Glu Leu Leu Thr Gly Lys Arg Pro Thr Asp Ser  
 1075 1080 1085  
 Pro Asp Phe Gly Asp Asn Asn Leu Val Gly Trp Val Lys Gln His Ala  
 1090 1095 1100  
 Lys Leu Arg Ile Ser Asp Val Phe Asp Pro Glu Leu Met Lys Glu Asp  
 1105 1110 1115 1120  
 Pro Ala Leu Glu Ile Glu Leu Leu Gln His Leu Lys Val Ala Val Ala  
 1125 1130 1135  
 Cys Leu Asp Asp Arg Ala Trp Arg Arg Pro Thr Met Val Gln Val Met  
 1140 1145 1150  
 Ala Met Phe Lys Glu Ile Gln Ala Gly Ser Gly Ile Asp Ser Gln Ser  
 1155 1160 1165  
 Thr Ile Arg Ser Ile Glu Asp Gly Gly Phe Ser Thr Ile Glu Met Val

	1170		1175		1180
Asp	Met	Ser	Ile	Lys	Glu
			Val	Pro	Glu
				Gly	Lys
					Leu
1185			1190		1195

1185 1190 1195

# SEQUENCE LISTING

<110> Chory, Joanne  
Jianming, Li  
Salk Institute for Biological Studies

<120> RECEPTOR KINASE, BIN 1

<130> SALKINS.012CP1

<150> 08/881,706

<151> 1997-06-24

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 4104

<212> DNA

<213> Arabidopsis

<220>

<221> CDS

<222> (97)...(3684)

<400> 1

tttccacttc	ctctgtaatg	gtggaaccaa	aaccctagat	tccccctttc	atctttctcta	60
tttcccacac	ttttctctct	cacaaactct	tgagaa	atg	aag act ttt tca agc	114
			Met	Lys	Thr Phe Ser Ser	
			1		5	
ttc ttt ctc tct gta aca act ctc ttc ttc ttc tcc ttc ttt tct ctt	162					
Phe Phe Leu Ser Val Thr Thr Leu Phe Phe Phe Ser Phe Phe Ser Leu						
10 15 20						
tca ttt caa gct tca cca tct cag tct tta tac aga gaa atc cat cag	210					
Ser Phe Gln Ala Ser Pro Ser Gln Ser Leu Tyr Arg Glu Ile His Gln						
25 30 35						
ctt ata agc ttc aaa gac gtt ctt cct gac aag aat ctt ctc cca gac	258					
Leu Ile Ser Phe Lys Asp Val Leu Pro Asp Lys Asn Leu Leu Pro Asp						
40 45 50						
tgg tct tcc aac aaa aac ccg tgt act ttc gat ggc gtt act tgc aga	306					
Trp Ser Ser Asn Lys Asn Pro Cys Thr Phe Asp Gly Val Thr Cys Arg						
55 60 65 70						
gac gac aaa gtt act tcg att gat ctc agc tcc aag cct ctc aac gtc	354					
Asp Asp Lys Val Thr Ser Ile Asp Leu Ser Ser Lys Pro Leu Asn Val						
75 80 85						
gga ttc agt gcc gtg tcc tcg tct ctc ctg tct ctc acc gga tta gag	402					
Gly Phe Ser Ala Val Ser Ser Ser Leu Leu Ser Leu Thr Gly Leu Glu						
90 95 100						
tct ctg ttt ctc tca aac tca cac atc aat ggc tcc gtt tct ggc ttc	450					
Ser Leu Phe Leu Ser Asn Ser His Ile Asn Gly Ser Val Ser Gly Phe						

Parameter	Unit	Value
Temperature	°C	25.0
Pressure	atm	1.0
Time	min	10.0
Flow rate	ml/min	1.0
Sample concentration	mg/ml	1.0
Mobile phase		Water
Stationary phase		Reverse phase
Column		150 x 4.6 mm
Particle size	µm	5.0
Porosity	Å	1000
Refractive index		1.33
Wavelength	nm	254
Detector		UV-Vis
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10
Injection speed	µl/min	1.0
Sample speed	µl/min	1.0
Injection pressure	atm	1.0
Sample pressure	atm	1.0
Injection time	min	10.0
Sample time	min	10.0
Injection volume	µl	10
Sample volume	µl	10

```
seqlist.txt                26 KB          3/30/01 2:45:42 PM
```

```
1 file(s)
Total filesize 26 KB
2 folder(s)
0 kilobytes free
```